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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/822,115	03/30/2001	Roald G. van Borselen	P30564US	9197
. 75	08/05/2003			
E. EUGENE THIGPEN PETROLEUM GEO-SERVICES, INC. 16010 BARKER'S POINT LANE			EXAMINER	
			GUTIERREZ, ANTHONY	
SUITE 600 HOUSTON, TX	X 77079		ART UNIT	PAPER NUMBER
,			2857	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Offic Action Summary		Application No.	Applicant(s)			
		09/822,115	BORSELEN, ROALD G. VAN			
		Examiner	Art Unit			
		Anthony Gutierrez	2857			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE I - External after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on 05 M	<u>May 2003</u> .				
2a)□	This action is FINAL . 2b)⊠ Th	is action is non-final.				
3)						
Dispositi	on of Claims					
•	Claim(s) <u>1-14,16-18 and 20</u> is/are pending in t	• •				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
·	Claim(s) <u>1-12</u> is/are allowed.					
·	Claim(s) <u>13,14,16-18 and 20</u> is/are rejected.					
•	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
	•					
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on 30 October 2002 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abovance. See 37 CER 1.85(a)						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
•	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachmen	1					
2) Notic	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>1</u>	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

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Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

2. The abstract of the disclosure is objected to because it contains less than 50 words. Correction is required. See MPEP § 608.01(b).

Response to Arguments

3. Applicant's arguments with respect to claims 13, 14, 16-18, and 20 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an

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international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claims 13, 14, 16-18, and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Baeten et al. (US Patent 6,519,205).

As to claim 13, Baeten discloses identifying primary events in seismic data comprising sorting the seismic data according to frequency (col. 6, lines 59-65); applying a coherence filter to the seismic data (col. 6, line 65 – col. 7, line 5); and selectively attenuating events in the seismic data wherein the selectively attenuating is dependent upon the frequency and coherency of events identified by the coherency filtering (col. 7, lines 5-14).

As to claim 16, Baeten further discloses attenuation that comprises reduction of amplitude (col. 6, lines 49-58).

As to claim 17, Baeten further discloses attenuation that comprises muting (col. 7, lines 53-61).

As to claims 14 and 18, Baeten further discloses that the coherency filter is applied in windows (col. 6, lines 65).

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Allowable Subject Matter

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6. Claims 1-12 are allowed.

7. The following is a statement of reasons for the indication of allowable subject

matter:

Applicant's claimed invention is deemed allowable over the prior art as the prior

art fails to teach or fairly suggest a method of identification of primary events in seismic

data comprising attenuating amplitudes in a frequency sorted gather above a pre-

selected base amplitude which are not associated with coherent events identified by

the application of a coherency filter to primary events which are separated from non-

primary events during the frequency sorting.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Thomas et al. (US Patent 6,330,512) discloses a method of attenuating ground roll

in an unstacked gather. The method involves transformation to the F-K domain via

Fourier transform, and seismic events that are moved by migration past an attenuation

line are intentionally discarded or attenuated.

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9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Anthony Gutierrez whose telephone number is (703)

305-1973. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marc Hoff can be reached on (703) 308-1677. The fax phone numbers for

the organization where this application or proceeding is assigned are (703) 308-7722 for

regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703)

305-0976.

Anthony Gutierrez

7/23/03/

MARC S. HOFF
SUPERVISORY PATENT EXAMINATE
TECHNOLOGY CENTER 2500

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